

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (CURRENTLY AMENDED) An apparatus for the treatment of contaminated media, the apparatus comprising:
a rotatable housing having at least one inlet for gas and at least on one suction opening for the medium to be treated;
a number of outlet openings arranged along the a periphery of the housing;
a number of vanes arranged in said the outlet openings;
a shaft connected to the housing and connectable to a device for causing rotation of the housing; and
wherein the housing comprises at least on one compartment, the at least one compartment which is being essentially shaped as a truncated cone, with the inlet the at least one suction opening for the medium to be treated being at the apex of the cone and the outlets outlet openings being at the base thereof.
2. (CURRENTLY AMENDED) The apparatus according to claim 1, wherein:
the said housing comprises an upper compartment with a corresponding upper suction opening and a lower compartment with a corresponding lower suction opening;
where the upper compartment and the lower compartments compartment are separated by a plate; and wherein
the plurality of outlet opening openings provided along the periphery of the housing or housings belong to the upper and the lower compartments, respectively, at the an opposite end thereof with respect to the a corresponding suction opening.
3. (CURRENTLY AMENDED) The apparatus according to claim 1, wherein said the housing comprises one:
a single compartment having the shape of a truncated cone with the apex facing downwards; and having a suction opening at the apex of said the cone, and;
a plate forming the base of said the cone and closing said the compartment; and wherein the gas inlet exits through said the plate.
4. (CURRENTLY AMENDED) The apparatus according to claim 1, wherein said the housing comprises one:
a single compartment having the shape of a truncated cone with the apex facing upwards; and having a suction opening (32) at the apex of said the cone, and;
a plate forming the base of said the cone and closing said the compartment(7); and wherein the gas inlet exits through said the plate(20).

5. (PREVIOUSLY PRESENTED) The apparatus according to claim 2 or 4, wherein the upper suction opening has the shape of an annular gap.

6. (CURRENTLY AMENDED) The apparatus according to claim 1, wherein the vanes are arranged such that they the vanes extend from the periphery of the housing and a distance inward towards the centre center of the apparatus; and form an angle (a) with an imagined line running from the an outermost point of attachment for respective vane and through the centre center of the entire unit apparatus.

7. (CURRENTLY AMENDED) The apparatus according to claim 1, wherein the rotation transferring means is a shaft which shaft is attached to the plate in the centre of center thereof.

8. (CURRENTLY AMENDED) The apparatus according to claim 1, wherein the shaft is hollow and connected to a gas source via a throttle valve for the supply of supplying gas to the inner of the apparatus via an opening in the an end of the shaft.

9. (CURRENTLY AMENDED) A method of treatment of a contaminated media medium containing organic material, the method comprising the following steps:
providing a rotatable, cone-shaped housing having an inlet and an outlet for the medium to be treated;
immersing said the housing in the medium to be treated;
rotating said the housing such that a vortex is generated therein; and
supplying gas to the center of said the vortex.

10. (CURRENTLY AMENDED) The method according to claim 8 9, wherein the medium has a high concentration of bacteria.

11. (CURRENTLY AMENDED) The method according to claim 9, wherein the medium is comprises manure, waste water sludge, and leak water from waste deposits.

12. (CURRENTLY AMENDED) The method according to claim 8 9, wherein the speed of rotation of the housing is 500-3500 rpm.

13. (CURRENTLY AMENDED) The method according to claim 8 9, wherein the gas is air.

14. (CURRENTLY AMENDED) The method according to claim 8 9, wherein the gas is ozone.

15. (CURRENTLY AMENDED) The method according to claim 8 9, wherein an apparatus according to is claim 1 is used.

16. (CANCELED)

17. (CURRENTLY AMENDED) The method according to claim 10, wherein the bacteria comprises E. Coli coli.

18. (CURRENTLY AMENDED) The method according to claim 8 12, wherein the speed of rotation of the housing is 800-2800 rpm.